

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA2004/000505

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K9/127 A61K9/51 A61K31/4745 A61K31/7072 A61K47/02.

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BIOSIS, PAJ, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/061870 A1 (PEARSON DON C ET AL) 23 May 2002 (2002-05-23) page 15, paragraph '0195! page 17, paragraph '0238! page 18; table 1 page 19; claim 8	1,3,4, 8-14
X	US 5 364 845 A (HENDERSON ROBERT W) 15 November 1994 (1994-11-15) column 3, line 58 - line 61 column 7, line 55 - column 8, line 10 claims 10-16	1,8,9,12
X	WO 01/85131 A (WEBB MURRAY ; BALLY MARCEL B (CA); TARDI PAUL (CA); CELATOR TECHNOLOGI) 15 November 2001 (2001-11-15) page 8, line 20 - line 21 example 5	1,5-9, 12-15,18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\* & \* document member of the same patent family

Date of the actual completion of the international search

27 July 2004

Date of mailing of the international search report

02.09.2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TENOVOUO, J. ET AL: "Release of cariostatic agents from a new buffering fluoride- and xylitol-containing lozenge to human whole saliva in vivo" JOURNAL OF ORAL REHABILITATION, 24(5), 325-331 CODEN: JORHBY; ISSN: 0305-182X, 1997, XP009034405 table 1	1,9,10,12
X	MANOLOV I ET AL: "Synthesis, physicochemical characterization and cytotoxic screening of new complexes of cerium, lanthanum and neodymium with Niffcoumar sodium salt" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 34, no. 10, October 1999 (1999-10), pages 853-858, XP004202939 ISSN: 0223-5234 tables II-IV page 856, column 1, paragraph 4.1	1,8
X	KOSTOVA I ET AL: "Synthesis, physicochemical characterisation and cytotoxic screening of new complexes of cerium, lanthanum and neodymium with Warfarin and Coumachlor sodium salts" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 34, no. 1, January 1999 (1999-01), pages 63-68, XP004223018 ISSN: 0223-5234 page 66, column 2, paragraph 4.3 table IV	1,8
X	KOSTOVA IRENA ET AL: "Synthesis, physicochemical characterization, and cytotoxic screening of new zirconium complexes with coumarin derivatives" ARCHIV DER PHARMAZIE (WEINHEIM), vol. 344, no. 5, May 2001 (2001-05), pages 157-162, XP002289981 ISSN: 0365-6233 page 160, column 2, chapter "H-NMR Analysis" table 4	1
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PCT/CA2004/000505

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KUWAHARA J ET AL: "PHOTOSENSITIVE DNA CLEAVAGE AND PHAGE INACTIVATION BY COPPER-II CAMPTOTHECIN" BIOCHEMISTRY, vol. 25, no. 6, 1986, pages 1216-1221, XP002289982 ISSN: 0006-2960 cited in the application figure 4	1,5,9-11
A	US 2002/131997 A1 (GIOVANELLA BEPPINO C ET AL) 19 September 2002 (2002-09-19) the whole document	1-21
A	KUWAHARA J ET AL: "Studies on antitumor drugs targeting DNA: photosensitive DNA cleavage of copper-camptothecin." NUCLEIC ACIDS SYMPOSIUM SERIES. 1985, no. 16, 1985, pages 201-204, XP009034418 ISSN: 0261-3166 cited in the application the whole document	1-21
A	HERTZBERG R P ET AL: "ON THE MECHANISM OF TOPOISOMERASE I INHIBITION BY CAMPTOTHECIN EVIDENCE FOR BINDING TO AN ENZYME DNA COMPLEX" BIOCHEMISTRY, vol. 28, no. 11, 1989, pages 4629-4638, XP002289983 ISSN: 0006-2960 cited in the application the whole document	1-21
P,X	WO 03/028697 A (WEBB MURRAY ; ABRAHAM SHEELA (CA); BALLY MARCEL (CA); TARDI PAUL (CA);) 10 April 2003 (2003-04-10) page 4, line 14 - page 6, line 19 page 14, line 13 - line 14 page 20, line 15 - line 25 page 21, line 10 - line 11 examples 1,2,6,9,10,12,14,15	1-18
P,X	WO 03/028696 A (SHEW CLIFFORD ; WEBB MURRAY (CA); HARASYM TROY (CA); TARDI PAUL (CA);) 10 April 2003 (2003-04-10) examples 15,16	1-14, 16-18

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA2004/000505

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002061870	A1	23-05-2002	NONE	
US 5364845	A	15-11-1994	AU 688313 B2	12-03-1998
			AU 6490194 A	24-10-1994
			BR 9406178 A	06-02-1996
			CA 2159591 A1	13-10-1994
			DE 693928 T1	20-11-1997
			EP 0693928 A1	31-01-1996
			ES 2099686 T1	01-06-1997
			FI 954654 A	13-11-1995
			JP 2971579 B2	08-11-1999
			JP 9503197 T	31-03-1997
			NO 953853 A	28-09-1995
			NZ 263710 A	24-11-1997
			WO 9422453 A1	13-10-1994
			US 5587363 A	24-12-1996
			US 6492349 B1	10-12-2002
WO 0185131	A	15-11-2001	AU 5810601 A	20-11-2001
			WO 0185131 A2	15-11-2001
US 2002131997	A1	19-09-2002	NONE	
WO 03028697	A	10-04-2003	WO 03028696 A2	10-04-2003
			WO 03028697 A2	10-04-2003
			CA 2462369 A1	10-04-2003
			CA 2462376 A1	10-04-2003
			EP 1432402 A2	30-06-2004
			EP 1432403 A2	30-06-2004
			US 2003147945 A1	07-08-2003
			US 2003091621 A1	15-05-2003
			US 2004022817 A1	05-02-2004
WO 03028696	A	10-04-2003	WO 03028696 A2	10-04-2003
			WO 03028697 A2	10-04-2003
			CA 2462369 A1	10-04-2003
			CA 2462376 A1	10-04-2003
			EP 1432402 A2	30-06-2004
			EP 1432403 A2	30-06-2004
			US 2003147945 A1	07-08-2003
			US 2003091621 A1	15-05-2003
			US 2004022817 A1	05-02-2004
			WO 03055469 A1	10-07-2003
			US 2003235619 A1	25-12-2003